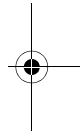
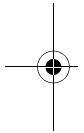


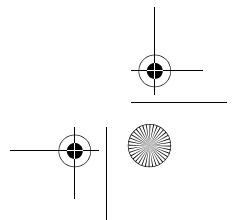
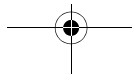
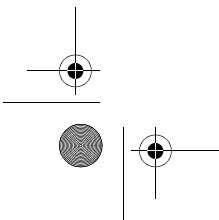
Cat. No. 32-1168
OWNER'S MANUAL

Please read before using this equipment.

Karaoke with Voice Cancellor



OPTIMUS®



FEATURES

Your Optimus Karaoke lets you be the star as you sing along with your favorite recordings. To hear your voice along with the music through a speaker, simply connect the karaoke between an external music source (such as a CD player) and your amplifier/receiver.

The karaoke works with stereo recordings so there are no special karaoke tapes to buy.

Your karaoke system's features include:

Voice Canceller — lets you reduce the volume of the prerecorded singer's voice as you sing with the music.

Supplied Microphone — lets you immediately sing along with the music.

Dual Microphone Jacks — let you use the supplied microphone and an optional microphone simultaneously to sing duets or for lead and background vocals.

Separate Microphone Volume Controls — let you adjust the volume of your duet partner or background singer separately.

Dual Source Inputs — let you connect dual external music sources such as a CD player and cassette player.

Echo Control — lets you add an echo to the sound for a concert hall effect.

Dual Power Sources — let you power your system from internal batteries or AC power (with an optional adapter).

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.



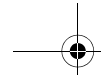
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



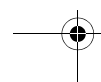
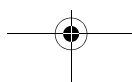
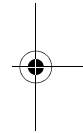
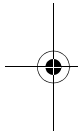
This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.



CONTENTS



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| Connections | 4 |
| Connecting Microphones | 4 |
| Connecting to an Audio Source | 4 |
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CONNECTIONS

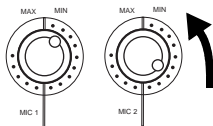
Caution: To avoid electrical shock, do not connect the system to AC power until all other connections are complete.

CONNECTING MICROPHONES

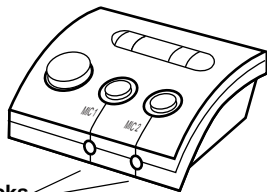
The system has two microphone jacks so you can use the supplied microphone to sing along to your favorite recordings, and connect an additional microphone for duets or lead and background vocals.

The additional microphone must have a 1/4-inch plug and an ON/OFF switch. To help prevent feedback, we recommend a unidirectional microphone. (RadioShack carries a wide variety of microphones.)

To connect either one or two microphones, first rotate the **MIC 1** and **MIC 2** volume controls counterclockwise to **MIN.**



If you connect only one microphone, plug it into the jack directly in front of the **MIC 1** volume control. If you add a second microphone, plug it into the jack directly in front of the **MIC 2** volume control.

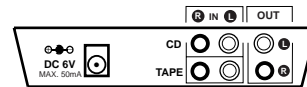


Microphone Jacks

CONNECTING TO AN AUDIO SOURCE

You must connect an audio source (such as a CD player or stereo system) to the karaoke system, so you can sing along with the music.

Connect the audio source's stereo output jacks to the karaoke system's **CD** or **TAPE IN R** and **L** jacks, according to the type of audio source, using the supplied cable. Use the white plug for the left connection and the red plug for the right connection.



Audio Source Jacks

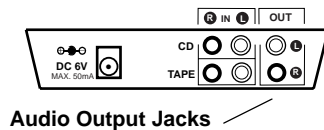
Note: You can connect the karaoke to both a CD and a tape audio source at the same time. However, the karaoke only plays one source at a time. (See "Controls" on Page 7.)

If the audio source does not have AUX OUT jacks, but has a headphone output jack (such as is often found on a portable tape player or CD player), use a shielded Y-adaptor to connect it to the karaoke. (RadioShack carries a wide variety of Y-adapters.) Connect the Y-adaptor's single-plug end to the audio source's headphone jack, and connect the Y-adaptor's two phono plugs to the karaoke's **CD** or **TAPE IN R** and **L** jacks.

If you connect a second audio source, you need an additional audio patch cable. (RadioShack carries a wide variety of audio cables.)

CONNECTING TO AN AUDIO OUTPUT COMPONENT

To hear the music along with your voice, connect your stereo amplifier/receiver to the karaoke's **OUT L** and **R** jacks using the supplied cable. Use the white plug for the left connection and the red plug for the right connection at both ends of the cable.



Note: If you turn off the karaoke, the sound from the audio source still passes through the karaoke to the audio output component unaffected until you turn off the source and/or the output components.

Caution: If you connect the karaoke's input and output to the same audio component (like a tape deck monitor circuit in a receiver), the karaoke cannot isolate the ground to the input jacks. This causes the right channel to short to ground and feed the left channel to both the left and right outputs.

CONNECTING POWER

You can power your karaoke system using one of the following power sources.

- four AA batteries
- AC power

Installing Batteries

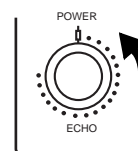
You can power the karaoke system with four AA batteries (not supplied). For the longest life and best performance, we recommend RadioShack alkaline batteries.

Cautions:

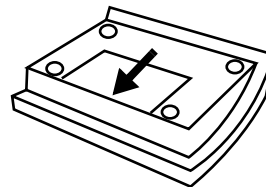
- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install the batteries.

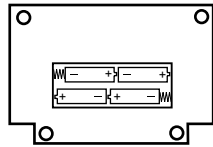
1. Rotate **ECHO** counterclockwise toward **POWER** until it clicks to turn it off.



2. Press on the battery compartment cover on the bottom of the karaoke and slide it in the direction of the arrow to remove it.



3. Install the batteries as indicated by the polarity symbols (+ and -) marked inside the compartment.



4. Replace the battery compartment cover.

If the **ON/OFF** indicator dims, replace the batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Cautions:

- Always remove old or weak batteries. Batteries can leak chemicals that can destroy electronic parts.
- If you do not plan to use the karaoke system with batteries for several days, or if you plan to use only AC power, remove the batteries.

Using AC Power

You can power your karaoke using a 6V AC adapter and a size M Adaptaplug® adapter (neither supplied). Both are available at your local RadioShack store.

Cautions:



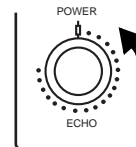
You must use a Class 2 power source that supplies 6V DC and delivers at least 50 mA. Its center tip must be set to positive and its plug must fit the

karaoke's **DC 6V** jack. Using an adapter that does not meet these specifications could damage the karaoke or the adapter.

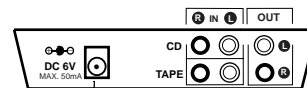
- Always connect the AC adapter to the karaoke before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the karaoke.

Note: Connecting an AC adapter disconnects internal batteries.

1. Rotate **ECHO** counterclockwise toward **POWER** until it clicks to turn it off.



2. Insert the size M Adaptaplug adapter into the AC adapter's cord so it reads TIP+ (positive).
3. Insert the adapter's barrel plug into the karaoke's **DC 6V** jack.



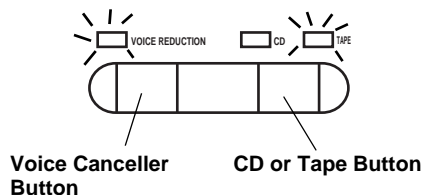
DC 6V Jack

4. Plug the AC adapter into a standard AC outlet.

SINGING ALONG

CONTROLS

Now get ready for some fun! Use the CD or tape button to select the audio source. Then set the voice canceller button and adjust the echo control to get the sound just right.

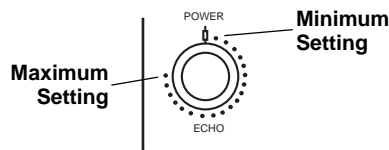


Voice Cancellor Button — Press the voice canceller button to reduce the volume of the prerecorded singer's voice as you play music from your audio source. The VOICE REDUCTION indicator lights.

Note: The voice cancelling feature reduces the level of signals that are recorded at the same level on both the left and right channels. Its effectiveness varies, depending on the music source. For example, it does not work well with monaural recordings or broadcasts, recordings or broadcasts with strong echoes, stereo recordings with material originally recorded in monaural, or vocals recorded off center. Also, if a musical instrument was recorded in the mid-frequency range, its sound level might decrease along with the vocals.

CD or Tape Button — To sing along with a CD, press the CD or tape button until the CD indicator lights. To sing along with a tape, press the button again until the TAPE indicator lights.

Echo Control — To set the amount of echo in your voice as you sing along, adjust **ECHO** between its minimum and maximum settings.



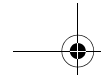
OPERATION

Warning: To protect your hearing, set the audio output component's volume to its minimum position before you turn it on.

Follow these steps to sing along with the audio input source.

1. To turn on the karaoke, turn **ECHO** clockwise until it clicks and the **POWER** indicator lights.
2. Turn on the audio source and the audio output component. You hear the audio source's sound through the audio output component. Set the audio output component's volume control to a comfortable listening level.
3. Press the CD or TAPE button according to the audio source you want to sing along with.
4. Set each connected microphone's **ON/OFF** switch to **ON**. Sing directly into the microphone along with the music.





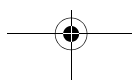
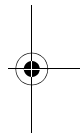
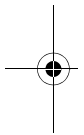
-
5. Use **MIC 1** and/or **MIC 2** to adjust the volume of each microphone.

Note: To avoid feedback, keep the microphone away from the speakers and the other microphone.

6. Press the voice canceller button to reduce the prerecorded voice's sound.
7. Rotate **ECHO** for the desired reverberation.
8. When you finish, rotate **ECHO** counterclockwise until it clicks to turn off the karaoke.
9. Turn off the audio source and the audio output components.

Notes:

- The voice canceller button works with the karaoke's power on or off. However, if the power is off, the VOICE REDUCTION indicator does not light.
- For **MIC 1**, **MIC 2**, and **ECHO** to operate, the karaoke's power must be on.



CARE AND MAINTENANCE

Your Optimus Karaoke is an example of superior design and craftsmanship. The following suggestions will help you care for your karaoke so you can enjoy it for years.



Keep the karaoke dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the karaoke only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the karaoke away from dust and dirt, which can cause premature wear of parts.



Handle the karaoke gently and carefully. Dropping it can damage circuit boards and cases and can cause the karaoke to work improperly.



Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your karaoke's electronic parts.



Wipe the karaoke with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the karaoke.

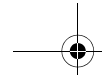
Modifying or tampering with the karaoke's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your karaoke is not performing as it should, take it to your local RadioShack store for assistance.

THE FCC WANTS YOU TO KNOW

Your karaoke might cause TV or radio interference even when it is operating properly. To determine whether your karaoke is causing the interference, turn off the karaoke. If the interference goes away, your karaoke is causing the interference. Try to eliminate the interference by:

- Moving your karaoke away from the receiver
- Using outlets on different electrical circuits for the karaoke and the TV or radio
- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your karaoke.

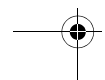
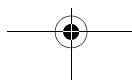
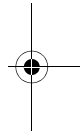
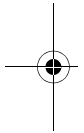


SPECIFICATIONS



| | |
|--------------------------------------|---|
| Power Supply | 6 Volts DC: 4 AA Batteries 6 Volts DC Optional AC Adapter (Delivers 50 mA Minimum) |
| AUX Input Impedance | 22 kohm (Nominal) |
| MIC 1/MIC 2 Maximum Volume Hum | 0.8 mV (Nominal) |
| Total Harmonic Distortion | 1.2% |
| Dimensions (HWD) | $2^{9/16} \times 6^{11/16} \times 5^{1/8}$ Inches (65 × 170 × 130 mm) |

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.



Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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12/99

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